

**MINUTES
SELECTMEN'S MEETING
GRIFFIN ROOM, TOWN HALL
MONDAY, NOVEMBER 30, 2015
6:30 P.M.**

APPROVED

SELECTMEN PRESENT: Brown, Cebula, Hughes, LaMantia, MacAskill

OTHERS PRESENT: Town Administrator Christopher Clark, Assistant Town Administrator Charleen Greenhalgh, John Rendon, Ginny Hewitt, David Spitz, Richard Waystack, Donna Molino, Tammy Taylor, Lincoln Hooper, Chris Nickerson, Anne Howe, Mary Warde, Bill Crowell, Kathleen Remillard, Gary Carreiro, and others.

MEETING CALLED TO ORDER at 6:30 p.m. by Chairman Hughes.

WEEKLY BRIEFING

Chairman Hughes stated that it is a somber day in the Town as we have learned of the passing of David Scannell, our Assessor, on Saturday evening unexpectedly and he called for a moment of silence to reflect on our friend and colleague. Mr. Waystack made the following statement on behalf of the Board of Assessors: It is with a heavy heart that we announce the passing of David Scannell who served the community for over 34 years and was the senior member of Town Hall. His expertise was widely regarded across Cape Cod and he was considered the dean of assessors here on the Cape. He was a good friend to many, was always willing to help his fellow employees, and went out of his way to assist those taxpayers who were most in need in this community.

CONSENT AGENDA

- A. Approve Minutes –
 - 1. November 9, 2015 Regular Meeting
 - 2. November 16, 2015 Executive Session
- B. Approve Job Description for Assistant Library Director
- C. Approve application by Wychmere Harbor Functions Limited Partnership for Pledge of Liquor License as required by lending institution
- D. Approve petition by Verizon New England and Eversource Energy to relocate a pole on Harbor Way
- E. Approve renewal of 2016 Mooring Servicing Agent Permits as recommended by Harbormaster

Chairman Hughes said they would not be taking up Item B tonight and asked to hold Item E. Ms. Brown moved approval of Items A, C and D on the Consent Agenda. Mr. LaMantia seconded the motion and the motion carried by a unanimous vote. Mr. Rendon took questions from Mr. MacAskill on Item E. Mr. MacAskill moved to approve the renewal of the 2016 Mooring Servicing Agent Permits as recommended by Harbormaster. Mr. LaMantia seconded the motion and the motion carried by a unanimous vote.

PUBLIC HEARINGS/PRESENTATIONS *(Not earlier than 6:30 P.M.)*

A. Annual Meeting - Library Trustees – *Mary Warde*

Ms. Warde delivered the annual report of the Library Trustees.

B. Presentation – Town Engineer’s design of Lower County Road project – *Lincoln Hooper*

Mr. Hooper outlined his memo to the Board dated November 19, 2015 regarding the Lower County Road Capital Project (attached). Chairman Hughes stated that it is the Board’s sense to use the Town Surveyor and Engineer to design the project and move forward.

C. Presentation – Saquatucket Marina Dock Replacement Design – *Bourne Engineering*

Mr. Rendon and Mr. Russell Titmuss from Bourne Engineering provided the attached presentation on the design for Saquatucket Marina Reconstruction and took questions from the Board.

D. Presentation - Judah Eldridge Property – *Jim Cheverie*

Mr. Cheverie read the following statement:

Last spring during the No on 9 campaign I had an opportunity to speak to a lot of Harwich residents about the Six Ponds DCPC and specifically the 25 acre parcel of land along Hawksnest Rd. A common theme began to emerge, people really want this land to be preserved. One person after another urged me to look past the No on 9 campaign and if we were successful in defeating question 9, they wanted me to work with the town to get this land into conservation use so future generations could enjoy this jewel that Harwich has. To this day I continue to get emails and facebook messages from people looking to see where I am on this.

A couple of weeks ago I attended the Planning board meeting where the board discussed the proposed zoning changes for East Harwich and voted to submit this plan to the Selectmen, during this discussion they opened up the meeting to public comment. There were several residents who spoke about the need and their desire to see land set aside to be used as offsets for future growth and green space. There were at least two people who I do not know who specifically brought up the Hawksnest parcel and suggested that this land be used as an offset. They spoke about how the land is owners unknown, no property tax has been paid on it and since it is in the Six Ponds DCPC it would be a perfect fit for both preservation and a buffer of sorts between the denser commercial zone and the residential areas of the DCPC.

On November 16th at the Selectmen’s meeting the Planning Board made their presentation to a standing room only crowd. During public comments, once again several people spoke about the need for offsets. It seems apparent that any talk of changing zoning and increasing density needs to be tied into a discussion involving offsets.

I think between the wastewater discussions and the new zoning discussions that are occurring right now, acquiring this parcel would dovetail nicely into both of these plans. I think the time is right to start thinking about the possibility of having the town acquire this parcel for Conservation thereby removing it from inventory for future development - and I know from

individual discussions I have had with several of you, that you at least in theory support this idea. The land is “owners unknown” and as such has not had property tax paid on it, so removing it from buildable inventory would not short the town any of this tax money. Ballot question #9 had the price tag for these 25 acres as being around \$400k, given the large price tag that the wastewater plan is carrying, this is indeed a bargain and one I’m sure the voters would approve of.

I come before you tonight to at least start a discussion on this and to get a general sense of what the board thinks and to see if you would at least in theory support such an idea. I am more than willing to assist this board however I can and I am open to any input or direction you might have. Thank you.

Chairman Hughes and Ms. Cebula encouraged Mr. Cheverie to seek endorsement from the Real Estate and Open Space Committee for this concept. Chairman Hughes said he should look into getting it funded by CPC or Land Bank funds. Mr. Clark answered questions from the Board regarding eminent domain taking. Mr. MacAskill thanked Mr. Cheverie and said he would support this. Mr. Cheverie suggested that the Board sponsor an article for this and Chairman Hughes said he should see the Real Estate and Open Space Committee first.

NEW BUSINESS

A. Wastewater Moment – 2016 Annual Town Meeting Goals –

- Inter-Municipal Agreement with Chatham
- Governance Organizational Structure
- Recharge Site
- East Harwich Sewer Design
- Water/Wastewater Infrastructure Fund

Chairman Hughes said the Board needs to discuss what they want to bring to Town Meeting next year. He recommended that at a minimum we get the Inter-Municipal Agreement ironed out. Mr. LaMantia reported that a lot of positive suggestions came out of the last meeting and the subcommittee needs to take a look at them. Chairman Hughes asked them to discuss it and bring something back. Mr. Clark stated that we will be getting documents from Bob Duncanson in December which he will forward to the subcommittee. Ms. Cebula stressed that she did not want to wait until January to start discussions.

TOWN ADMINISTRATOR’S REPORT

A. Muddy Creek Construction Schedule

Mr. Clark stated that he hopes to have a final construction schedule for the next meeting. He reported that the Department of Fish and Wildlife will be doing a press release about the project and its funding. He stated that the main part of the project will not start until January 4, 2015 and that the ribbon cutting is expected to be in May.

Mr. Clark reported that he has appointed Donna Molino as Interim Assessing Director.

ADJOURNMENT

Chairman Hughes adjourned the meeting at 8:14 p.m.

Respectfully submitted,

Ann Steidel
Recording Secretary



TOWN OF HARWICH

DEPARTMENT OF PUBLIC WORKS

273 Queen Anne Road • P.O. Box 1543 • Harwich, MA 02645

Telephone (508) 430-7555

Fax (508) 430-7598

MEMORANDUM

TO: Board of Selectmen

FROM: Lincoln S. Hooper, Director 

DATE: November 19, 2015

RE: Lower County Road Capital Project

I would like to propose a stand-alone reconstruction project for Lower County Road in FY 18 at an estimated cost of \$3.5M. I make this recommendation for several reasons including the poor condition of the road, structural defects with its base, a non-ADA compliant continuous sidewalk, old and failing drainage systems and the sheer scope of the project. Although Lower County Road is eligible for State funding in the TIP program (Transportation Improvement Program), there is no way to meet the Complete Streets criteria (sidewalks and bike lanes on both sides of the street) within the Town's 40' ROW. I am requesting consideration of funding this project outside of our Road Maintenance Plan to avoid disrupting our existing program.

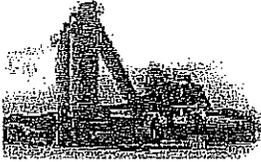
For reference, we typically spend approximately \$1.4M per year maintaining our 482 public roads (142 miles) with a combination of Chapter 90 funding of approximately \$700k and local funding of approximately \$700k. I am extremely proud of the conditions of the roads in Harwich and do not recommend attempting to fund a project of this size and magnitude within the confines of our existing Road Maintenance Plan.

We have had discussion with Town Engineer Bob Cafarelli and Town Surveyor Paul Sweetser about them performing the necessary survey and engineering for this project. I have estimated the cost of outsourcing this function to be approximately \$250k. In my humble opinion, Bob and Paul are both capable and qualified to perform this work in-house if given the time to do so.

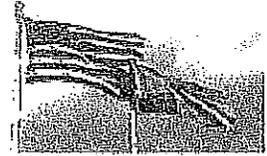
Please note that the attached estimate for this project is derived from Lawrence Lynch Corp. inserting data from Lower County Road into the bid they submitted for our Route 137 project (attached).

Thank you for your consideration in this matter.

Attachments: Lawrence Lynch Estimate for Lower County Road Reconstruction



LAWRENCE LYNCH CORP.



Lawrence-Lynch Corp. • P.O. Box 513 • 896 Gifford Street • Falmouth, MA 02541 • www.LawrenceLynch.com
 Phone (508) 548-1800 • Main Fax (508) 457-1825 • Construction Fax (508) 548-8917 • Toll Free In MA 1-800-952-7188

To:	Town Of Harwich	Contact:	Chris Nickerson
Address:	Harwich, MA	Phone:	
		Fax:	
Project Name:	- Harwich - Lower County Rd Reconstruction - Harwich	Bid Number:	EHW-2011-051
Project Location:	Rt 137, Harwich, MA	Bid Date:	11/22/2011
Addendum #:	1, 2,		

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
101.	CLEARING AND GRUBBING *Length By About 15' In The Event You Need It For The New Sidewalk	3.50	ACRE	\$7,204.97	\$25,217.40
102.51	INDIVIDUAL TREE PROTECTION	70.00	EACH	\$45.63	\$3,194.10
102.52	TEMPORARY TREE PROTECTION FENCE	500.00	FOOT	\$3.38	\$1,690.00
103.	TREE REMOVED - DIAMETER UNDER 24 INCHES	26.00	EACH	\$197.13	\$5,125.38
104.	TREE REMOVED - DIAMETER 24 INCHES AND OVER	1.00	EACH	\$1,084.88	\$1,084.88
120.1	UNCLASSIFIED EXCAVATION **Cut 16" Out Of Roadway Box For New Gravel And Hot Mix. **Cut Approx 8" In Side Walk Areas	16,100.00	CY	\$12.50	\$201,250.00
129.	PAVEMENT MILLING @ Each End Of Job Plus Transitions At Side Roads **	700.00	SY	\$32.00	\$22,400.00
141.1	TEST PIT FOR EXPLORATION	200.00	CY	\$50.00	\$10,000.00
145.	DRAINAGE STRUCTURE ABANDONED	7.00	EACH	\$158.84	\$1,111.88
146.	DRAINAGE STRUCTURE REMOVED	35.00	EACH	\$385.36	\$13,487.60
151.	GRAVEL BORROW For New Imported Gravel @ 8" Under Roadways And Sidewalks. ***	11,900.00	CY	\$19.80	\$235,620.00
170.	FINE GRADING AND COMPACTING ***	30,600.00	SY	\$4.27	\$130,662.00
187.31	REMOVAL AND DISPOSAL OF DRAINAGE PIPE SEDIMENTS	200.00	FOOT	\$16.30	\$3,260.00
201.	CATCH BASIN	93.00	EACH	\$1,472.74	\$136,964.82
202.	MANHOLE	12.00	EACH	\$1,889.90	\$22,678.80
204.	GUTTER INLET	18.00	EACH	\$849.37	\$15,288.66
205.	LEACHING BASIN	82.00	EACH	\$2,997.38	\$245,785.16
205.1	PRECAST CONCRETE LEACHING GALLEY	42.00	EACH	\$989.41	\$41,555.22
205.3	INFILTRATION CHAMBER	300.00	FOOT	\$59.32	\$17,796.00
220.	DRAINAGE STRUCTURE ADJUSTED	132.00	EACH	\$195.57	\$25,815.24
221.	FRAME AND COVER	127.00	EACH	\$608.34	\$77,259.18
222.1	FRAME AND GRATE - MASSDOT CASCADE TYPE	66.00	EACH	\$675.02	\$44,551.32
225.52	TRAP AND HOOD MUNICIPAL STANDARD	67.00	EACH	\$204.31	\$13,688.77
244.12	12 INCH REINFORCED CONCRETE PIPE CLASS V	2,510.00	FOOT	\$35.84	\$89,958.40
250.04	4 INCH PVC SANITARY SEWER PIPE	50.00	FOOT	\$25.25	\$1,262.50
258.	STONE FOR PIPE ENDS	20.00	SY	\$50.26	\$1,005.20
303.06	6 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)	35.00	FOOT	\$81.84	\$2,864.40
309.	DUCTILE IRON FITTINGS FOR WATER PIPE	150.00	LB	\$4.36	\$654.00
357.12	12 INCH GATE BOX	7.00	EACH	\$91.66	\$641.62
358.	GATE BOX ADJUSTED	29.00	EACH	\$480.16	\$13,924.64
367.06	6 INCH CAST IRON PLUG	1.00	EACH	\$128.49	\$128.49
370.1	8 X 6 INCH TAPPING SLEEVE, VALVE AND BOX	1.00	EACH	\$3,227.42	\$3,227.42
371.06	6 INCH COUPLING	3.00	EACH	\$312.35	\$937.05
376.	HYDRANT	2.00	EACH	\$3,428.52	\$6,857.04
376.2	HYDRANT - REMOVED AND RESET	4.00	EACH	\$1,090.31	\$4,361.24
376.5	HYDRANT - ADJUSTED	5.00	EACH	\$1,178.10	\$5,890.50

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
443.	WATER FOR ROADWAY DUST CONTROL	60.00	MGAL	\$198.44	\$11,906.40
460.	HOT MIX ASPHALT ***	6,600.00	TON	\$74.89	\$494,274.00
464.	BITUMEN FOR TACK COAT ***	1,500.00	GAL	\$6.00	\$9,000.00
472.	HOT MIX ASPHALT FOR MISCELLANEOUS WORK	270.00	TON	\$125.28	\$33,825.60
482.3	SAWING ASPHALT PAVEMENT	13,500.00	FOOT	\$0.01	\$135.00
504.2	GRANITE CURB TYPE VA4 - SPLAYED END	4.00	EACH	\$231.09	\$924.36
506.	GRANITE CURB TYPE VB - STRAIGHT	6,300.00	FOOT	\$19.44	\$122,472.00
506.1	GRANITE CURB TYPE VB - CURVED	360.00	FOOT	\$27.54	\$9,914.40
509.	GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - STRAIGHT	530.00	FOOT	\$27.71	\$14,686.30
509.1	GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - CURVED	320.00	FOOT	\$31.26	\$10,003.20
511.1	GRANITE EDGING TYPE SB - STRAIGHT	25.00	FOOT	\$15.26	\$381.50
512.1	GRANITE EDGING TYPE SB (RADIUS 10 FEET OR LESS)	25.00	FOOT	\$23.10	\$577.50
514.	GRANITE CURB INLET - STRAIGHT	42.00	EACH	\$238.64	\$10,022.88
515.	GRANITE CURB INLET - CURVED	3.00	EACH	\$290.43	\$871.29
516.	GRANITE CURB CORNER TYPE A	6.00	EACH	\$151.27	\$907.62
517.	GRANITE CURB CORNER TYPE B	3.00	EACH	\$239.81	\$719.43
580.	CURB REMOVED AND RESET	445.00	FOOT	\$15.87	\$7,062.15
583.	EDGING REMOVED AND RESET	1,120.00	FOOT	\$8.84	\$9,900.80
593.	EDGING REMOVED AND STACKED	120.00	FOOT	\$7.06	\$847.20
620.1	STEEL W BEAM HIGHWAY GUARD (SINGLE FACED)	725.00	FOOT	\$21.73	\$15,754.25
620.4	STEEL W BEAM HIGHWAY GUARD BURIED END (SINGLE FACED)	2.00	EACH	\$776.86	\$1,553.72
622.1	STEEL W BEAM HIGHWAY GUARD (SINGLE FACED/WOOD POSTS)	1,800.00	FOOT	\$21.73	\$39,114.00
622.3	STEEL W BEAM HIGHWAY GUARD - CURVED(SINGLE FACED/WOOD POSTS)	40.00	FOOT	\$22.82	\$912.80
622.4	STEEL W BEAM HIGHWAY GUARD BURIED END (SF/WOOD POSTS)	18.00	EACH	\$776.86	\$13,983.48
627.1	STEEL W BEAM TERMINAL SECTION (SINGLE FACED)	3.00	EACH	\$54.33	\$162.99
627.10	TYPE C-3-C HIGHWAY GUARD END ANCHOR ASSEMBLY	2.00	EACH	\$3,096.57	\$6,193.14
669.	FENCE REMOVED AND STACKED	700.00	FOOT	\$4.35	\$3,045.00
670.	FENCE REMOVED AND RESET	340.00	FOOT	\$24.45	\$8,313.00
691.3	BOULDER REMOVED AND RESET	1.00	LS	\$943.24	\$943.24
697.	SEDIMENTATION FENCE	1,530.00	FOOT	\$3.27	\$5,003.10
697.1	SILT SACK	99.00	EACH	\$97.90	\$9,692.10
698.3	GEOTEXTILE FABRIC FOR SEPARATION	120.00	SY	\$6.58	\$789.60
701.	CEMENT CONCRETE SIDEWALK	1,300.00	SY	\$27.00	\$35,100.00
701.2	CEMENT CONCRETE WHEELCHAIR RAMP	450.00	SY	\$51.21	\$23,044.50
702.	HOT MIX ASPHALT WALK SURFACE ***	855.00	TON	\$111.69	\$95,494.95
703.	HOT MIX ASPHALT DRIVEWAY	750.00	TON	\$0.02	\$15.00
710.4	BOUND - PLAIN GRANITE	3.00	EACH	\$470.83	\$1,412.49
711.	BOUND REMOVED AND RESET	2.00	EACH	\$619.82	\$1,239.64
715.	RURAL MAIL BOX REMOVED AND RESET	25.00	EACH	\$153.63	\$3,840.75
748.	MOBILIZATION	1.00	LS	\$223,367.57	\$223,367.57
751.	LOAM BORROW***	2,700.00	CY	\$40.00	\$108,000.00
765.	SEEDING****	24,400.00	SY	\$1.36	\$33,184.00
767.8	BALES OF HAY FOR EROSION CONTROL	510.00	EACH	\$10.88	\$5,548.80
769.	PAVEMENT MILLING MULCH UNDER GUARD RAIL	2,590.00	FOOT	\$3.85	\$9,971.50
772.139	ARBORVITAE - GIANT 10-12 FEET	9.00	EACH	\$586.72	\$5,280.48
772.339	CEDAR - WHITE 10-12 FEET	9.00	EACH	\$478.07	\$4,302.63
774.651	CYPRESS - LEYLAND 10-12 FEET	7.00	EACH	\$695.37	\$4,867.59
804.3	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC - (UL)	1,100.00	FOOT	\$23.08	\$25,388.00
811.35	PULL BOX ADJUSTED	3.00	EACH	\$253.55	\$760.65
815.1	TRAFFIC CONTROL SIGNAL LOCATION NO. 1	1.00	LS	\$157,888.74	\$157,888.74
819.831	WIRE LOOP INSTALLED IN ROADWAY	800.00	FOOT	\$10.87	\$8,696.00
826.70	ELECTRIC SERVICE RISER RELOCATION	6.00	EACH	\$10.87	\$65.22
827.21	24 INCH WARNING CLUSTER (H1-2) - ALUMINUM PANEL (TYPE A)	3.00	EACH	\$135.81	\$407.43
832.	WARNING-REGULATORY AND ROUTE MARKER - ALUM.	300.00	SF	\$9.24	\$2,772.00

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
833.5	PANEL (TYPE A) DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL	75.00	EACH	\$5.43	\$407.25
833.7	DELINEATION FOR GUARD RAIL TERMINI	23.00	EACH	\$22.82	\$524.86
847.1	SIGN SUP (N/GUIDE)+RTE MKR W/L BRKWAY POST ASSEMBLY - STEEL	72.00	EACH	\$92.35	\$6,649.20
850.41	ROADWAY FLAGGER	1,500.00	HR	\$45.51	\$68,265.00
852.	SAFETY SIGNING FOR CONSTRUCTION OPERATIONS	1,250.00	SF	\$8.62	\$10,775.00
853.1	PORTABLE BREAKAWAY BARRICADE TYPE III	12.00	EACH	\$114.08	\$1,368.96
854.016	TEMPORARY PAVING MARKINGS - 6 IN. (PAINTED)	84,800.00	FOOT	\$0.16	\$13,568.00
854.026	TEMPORARY PAVEMENT MARKINGS - 6 IN. (NON- REMOVABLE TAPE)	2,120.00	FOOT	\$0.49	\$1,038.80
854.036	TEMPORARY PAVEMENT MARKINGS - 6 IN. (REMOVABLE TAPE)	2,120.00	FOOT	\$0.98	\$2,077.60
856.	SPECIAL LIGHTING UNIT (FLASHING ARROW)	240.00	UDAY	\$8.69	\$2,085.60
856.12	PORTABLE CHANGEABLE MESSAGE SIGN	380.00	UDAY	\$19.56	\$7,432.80
859.	REFLECTORIZED DRUM	64,800.00	DDAY	\$0.20	\$12,960.00
864.04	PAVEMENT ARROWS AND LEGENDS REFL. WHITE (THERMOPLASTIC)	850.00	SF	\$4.89	\$4,156.50
864.32	SLOTTED PAVEMENT MARKER ONE-WAY YELLOW	40.00	EACH	\$17.38	\$695.20
864.35	SLOTTED PAVEMENT MARKER TWO-WAY YELLOW/YELLOW	120.00	EACH	\$17.38	\$2,085.60
865.1	CROSS WALKS AND STOP LINES REFL. WHITE (THERMOPLASTIC)	1,850.00	SF	\$1.58	\$2,923.00
866.04	4 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	19,225.00	FOOT	\$0.43	\$8,266.75
866.06	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	5,980.00	FOOT	\$0.65	\$3,887.00
866.12	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	210.00	FOOT	\$1.58	\$331.80
867.04	4 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	18,250.00	FOOT	\$0.43	\$7,847.50
867.06	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	4,790.00	FOOT	\$0.65	\$3,113.50
867.12	12 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	775.00	FOOT	\$1.58	\$1,224.50
874.02	STREET NAME SIGN - TOWN STANDARD	75.00	EACH	\$59.76	\$4,482.00
874.2	TRAFFIC SIGN REMOVED AND RESET	30.00	EACH	\$103.22	\$3,096.60
874.4	TRAFFIC SIGN REMOVED AND STACKED	88.00	EACH	\$10.87	\$956.56
902.	3500 PSI, 1.5 IN., 520 CEMENT CONCRETE	40.00	CY	\$266.20	\$10,648.00
986.	MODIFIED ROCKFILL	85.00	TON	\$65.11	\$5,534.35
999.	BOND	1.00	LS	\$25,443.62	\$25,443.62

Total Bid Price: \$3,233,584.45

<p>ACCEPTED: The above prices, specifications and conditions are satisfactory and are hereby accepted.</p> <p>Buyer: _____</p> <p>Signature: _____</p> <p>Date of Acceptance: _____</p>	<p>CONFIRMED: Lawrence-Lynch Corp</p> <p>Authorized Signature: _____</p> <p>Estimator: Edmund H. Williams, P.E. 508-548-1800 ewilliams@lawrencelynch.com</p>
--	--

CAPITAL PROJECTS REQUEST

1. Department: DPW
 3. Contact Person: Lincoln Hooper
 Phone #: 508-430-7555
 Email Address: highway@cape.com

2. Date Prepared: September 22, 2015

4. Project Title: Lower County Road Reconstruction
 Department Priority: B: Important/Necessary
 Sequence: 1
 Location: Lower County Road

6. Purpose of Project Request Form:
Add a new item to the program

5. Description: Complete reconstruction, including new road base, paving, drainage, and continuous sidewalk over 2.2 miles of roadway.

7. Justification and Useful Life: The road is in poor condition, with structural defects in its base and a sidewalk that is not ADA compliant. Although eligible for State funding through the TIP Program, there is no way to meet the Complete Streets criteria (sidewalks/bike lanes on both sides) within the Town's right of way.

8. Requested Cost Estimates for:

2017	2018	2019	2020	2021	2022	2023
	\$ 3,500,000.00					

If your estimate is indexed for inflation, indicate adjustment percentage (%) used: N/A

Multi-Phase Project: Yes or No How many years to complete? _____ Reliability of Cost Estimates: Strong, Average, Weak

1. Project Cost Summary:

Property acquisition:	
Planning / Engineering / Legal:	
Construction:	3,500,000.00
Furnishings / Equipment:	
Contingency / Other:	
TOTAL COST:	\$ 3,500,000.00

12. Recommended Method of Financing:

Taxes / Current revenues:	
Grants: Chapter 90 - approx	
Finance - Lease / Bonds:	
Capital reserve:	\$ 3,500,000.00
Other:	
TOTAL FINANCING:	\$ 3,500,000.00

3. Net Impact on Operating Costs (+ or -):

Direct Operating Costs	
Personnel: # of employees:	
Personnel: Full Salary/Benefit (
Purchased services:	
Materials and supplies:	
Equipment purchases:	
Utilities:	
Other:	
Indirect Operating Costs	
Fringe benefits:	
General administrative costs:	
Other:	
TOTAL OPERATING COSTS:	\$ -

14. Net Impact on Municipal Income (+ or -):

Taxes:	
Other income/Grants:	
Gain or loss from sale of replaced asset:	
TOTAL IMPACT ON INCOME:	\$ -

Reserved:
 Committee Sign-Off:
 Town Administrator Sign-Off:
 COC Sign-Off:

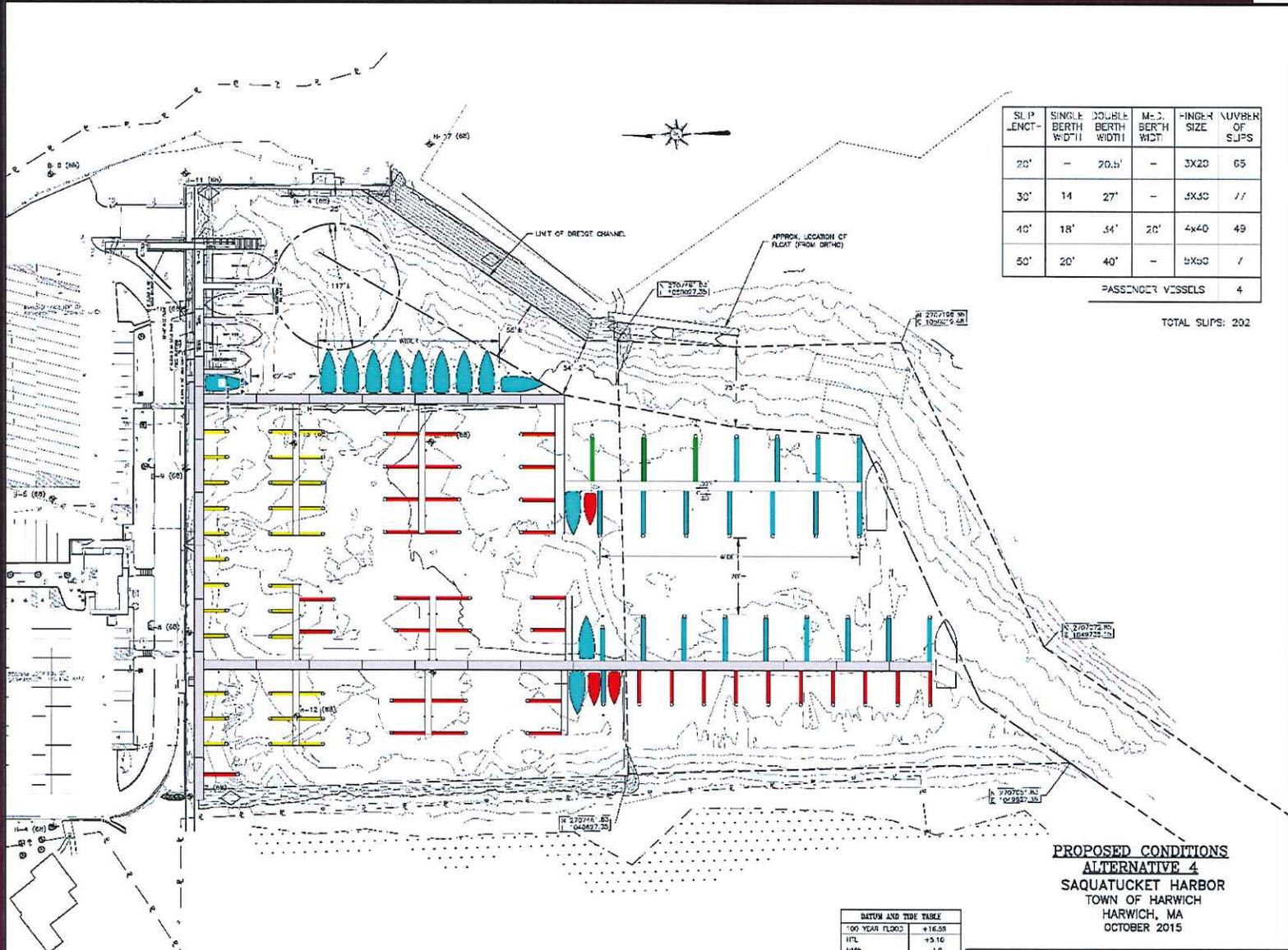
*Individual sheet p/vehicle. Provide Fleet schedule with anticipated replacements.



Saquatucket Harbor Marina Reconstruction

Harwich, MA

Concept Design



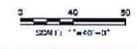
SLIP LENGTH	SINGLE BERTH WIDTH	DOUBLE BERTH WIDTH	M-D BERTH WIDTH	FINGER SIZE	NUMBER OF SLIPS
20'	-	20.5'	-	3X20	65
30'	14'	27'	-	5X30	11
40'	18'	34'	20'	4x40	49
50'	20'	40'	-	5X50	7
PASSENGER VESSELS					4

TOTAL SLIPS: 202

**PROPOSED CONDITIONS
ALTERNATIVE 4
SAQUATUCKET HARBOR
TOWN OF HARWICH
HARWICH, MA
OCTOBER 2015**

- GENERAL NOTES:**
1. EXISTING TOPOGRAPHIC AND SOUNDING INFORMATION BASED ON PHOTO AND HYDROGRAPHIC SURVEYS BY VNF ASSOCIATES - A DIVISION OF CH2M HILL, ON OCTOBER 8 AND 9, 2011.
 2. PROPERTY LINES ARE APPROXIMATE AND BASED ON MASS GIS TAX PARCEL BOUNDARY DATA.
 3. CHANNEL LIMITS ARE BASED ON USACE PROPOSED PLAN OF WORKS #WEL-CALD-JULY-11-2009.
 4. SITE BENCHMARK IS NAD 83, BENCH-MARK 74054 IS 10.37 FEET W/ TOP OF CONCRETE BULKHEAD.
 5. HORIZONTAL POSITIONING, AS SHOWN, IS BASED ON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD 83).

100 YEAR FLOOD	+16.58
HTL	+5.10
MHW	4.0
NAVD88	12.59
MW	+3.28
MLLW	0.0



Bourne Consulting Engineering, PC <small>INCORPORATED IN MASSACHUSETTS</small>	
DRAWN BY: J.S. ZISE CHECKED BY: J.S. ZISE APPROVED BY: J.S. ZISE DATE: 12/21/15	DRAWING NO. 35087-01-08 SHEET 6 OF X
REVISIONS:	

SUMMARY OF SLIPS



	EXISTING LAYOUT	PROPOSED
20' SLIPS	67	65
30' SLIPS	77	77
40' SLIPS	47	49
50' SLIPS	-	7
PASSENGER	-	4
TOTAL	191	202

PROPOSED DESIGN CRITERIA



Slip Length (ft.)	Finger Pier Width (ft.)	Double Slip Width (ft.)		Fairway Width (ft.)	
		Proposed	Existing	Min.	Pref.
20	3.0	20.5	19 - 22	30.0	35.0
30	3.0	27.0	22.5 – 29.7	45.0	52.5
40	4.0	34.0	33.5	60.0	70.0
50	4.0	38.0	N/A	75.0	87.5

PROPOSED DESIGN CRITERIA

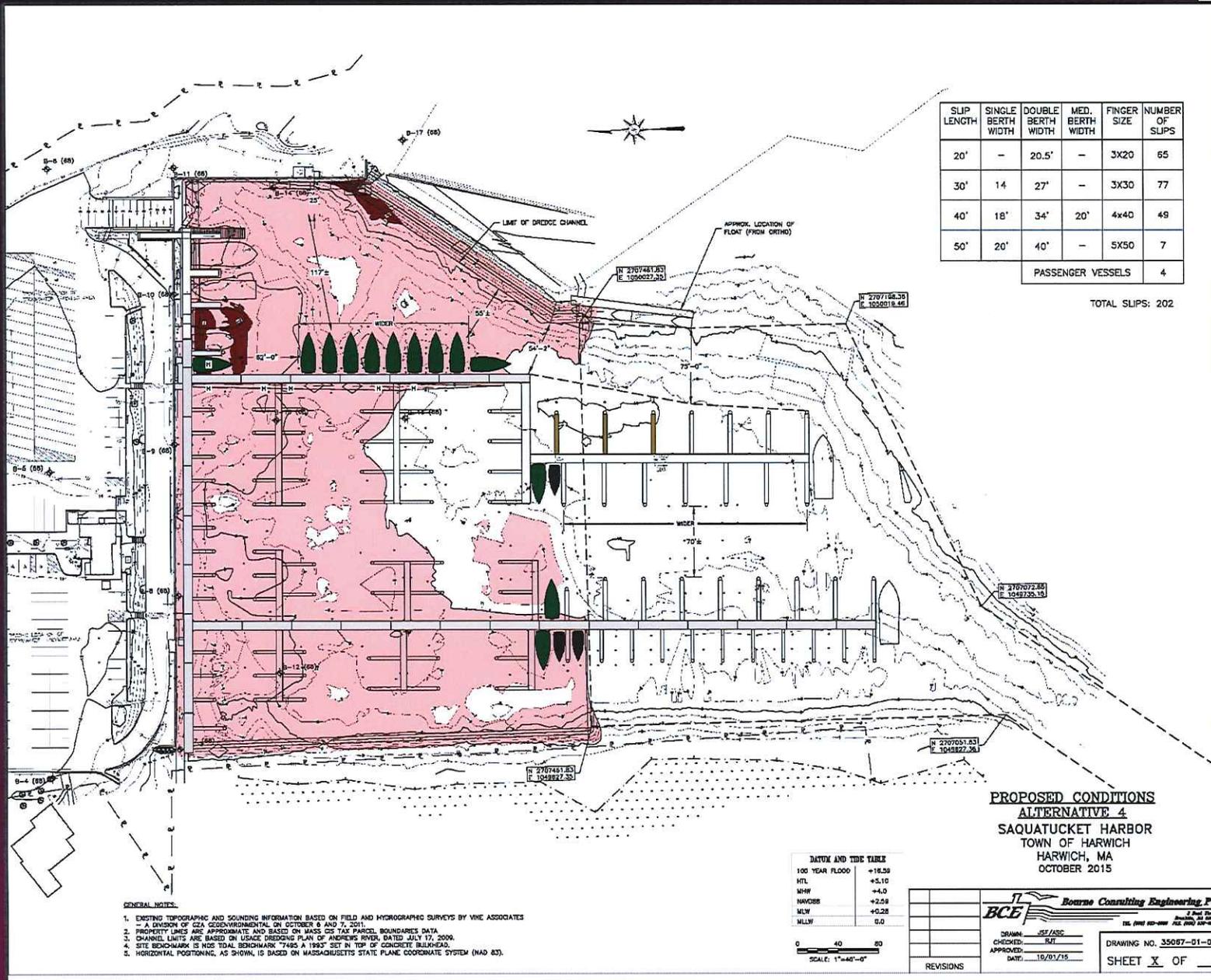


- 100 Year Storm Conditions
 - 75 mph wind speed
 - 3 foot wave height
 - No vessels in marina
- Operating Design Conditions - Survival
 - 50mph wind speed
 - 1.5 foot wave height
 - Vessels in marina
- Operating Design Conditions – Working Stress Design
 - 40mph wind speed
 - 1.5 foot wave height
 - Vessels in marina

ESTIMATED CONSTRUCTION COST



ITEM	TOTAL
Mobilization	\$600,000
Demolition	\$290,000
Site Prep	\$50,000
Bulkhead Repairs	\$150,000
Dredging estimate * (12,500 CY)	\$1,250,000
Access Pier	\$49,000
ADA Access	\$366,000
Main Pier	\$389,000
Main Pier Fingers	\$132,000
East Pier	\$784,000
East Pier Fingers	\$446,000
West Pier	\$841,000
West Pier Fingers	\$411,000
Utilities estimate *	\$467,000
Sub-Total	\$6,225,000
Contingency	\$950,000
TOTAL	\$7,175,000



SLIP LENGTH	SINGLE BERTH WIDTH	DOUBLE BERTH WIDTH	MED. BERTH WIDTH	FINGER SIZE	NUMBER OF SLIPS
20'	-	20.5'	-	3X20	65
30'	14	27'	-	3X30	77
40'	18'	34'	20'	4x40	49
50'	20'	40'	-	5X50	7
PASSENGER VESSELS					4

TOTAL SLIPS: 202

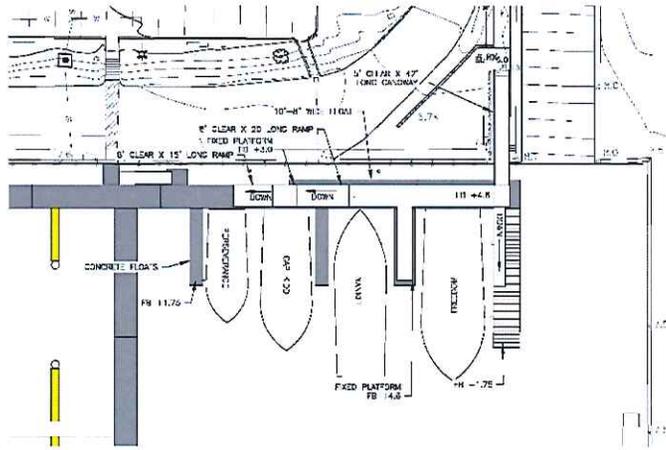
**PROPOSED CONDITIONS
ALTERNATIVE 4
SAQUATUCKET HARBOR
TOWN OF HARWICH
HARWICH, MA
OCTOBER 2015**

100 YEAR FLOOD	+18.26
HTL	+5.10
SNW	+4.0
HAVOBS	+2.58
MLW	+0.28
MLLW	0.0

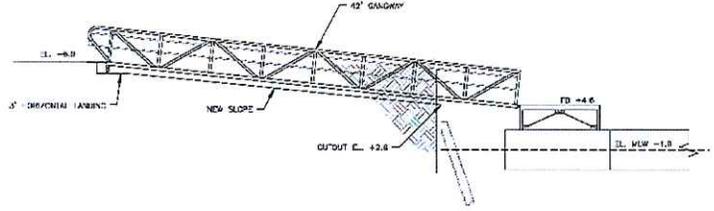


- GENERAL NOTES:**
- EXISTING TOPOGRAPHIC AND SOUNDING INFORMATION BASED ON FIELD AND HYDROGRAPHIC SURVEYS BY VINE ASSOCIATES - A DIVISION OF CZA CO-ENVIRONMENTAL ON OCTOBER 6 AND 7, 2011.
 - PROPERTY LINES ARE APPROXIMATE AND BASED ON MASS GIS TAX PARCEL BOUNDARIES DATA.
 - CHANNEL LIMITS ARE BASED ON USACE DREDGING PLAN OF ANDRUS RIVER, DATED JULY 17, 2009.
 - SITE BENCHMARK IS NGS TIDAL BENCHMARK 7495 A 1987 SET IN TOP OF CONCRETE BULKHEAD.
 - HORIZONTAL POSITIONING, AS SHOWN, IS BASED ON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD 83).

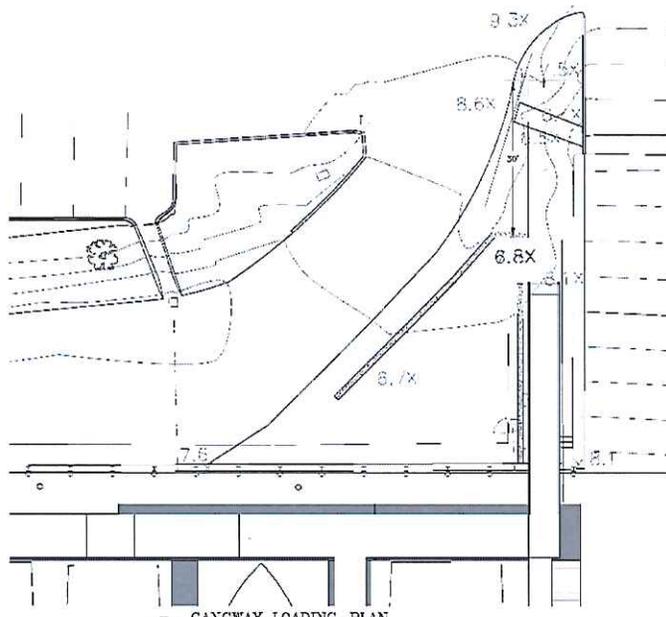
Bourne Consulting Engineering, P.C. <small>2 East Street Harwich, MA 02543 TEL: (508) 867-0000 FAX: (508) 867-0001</small>		DRAWN: JSE/ASC CHECKED: JBT APPROVED: JBT DATE: 10/01/15	DRAWING NO. 35087-01-02 SHEET <u>X</u> OF <u> </u>
		REVISIONS	



COMMERCIAL BOAT-PLAN
SCALE: 1"=20'-0"



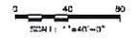
PASSENGER GANGWAY-SECTION
SCALE: 1/4"=1'-0"



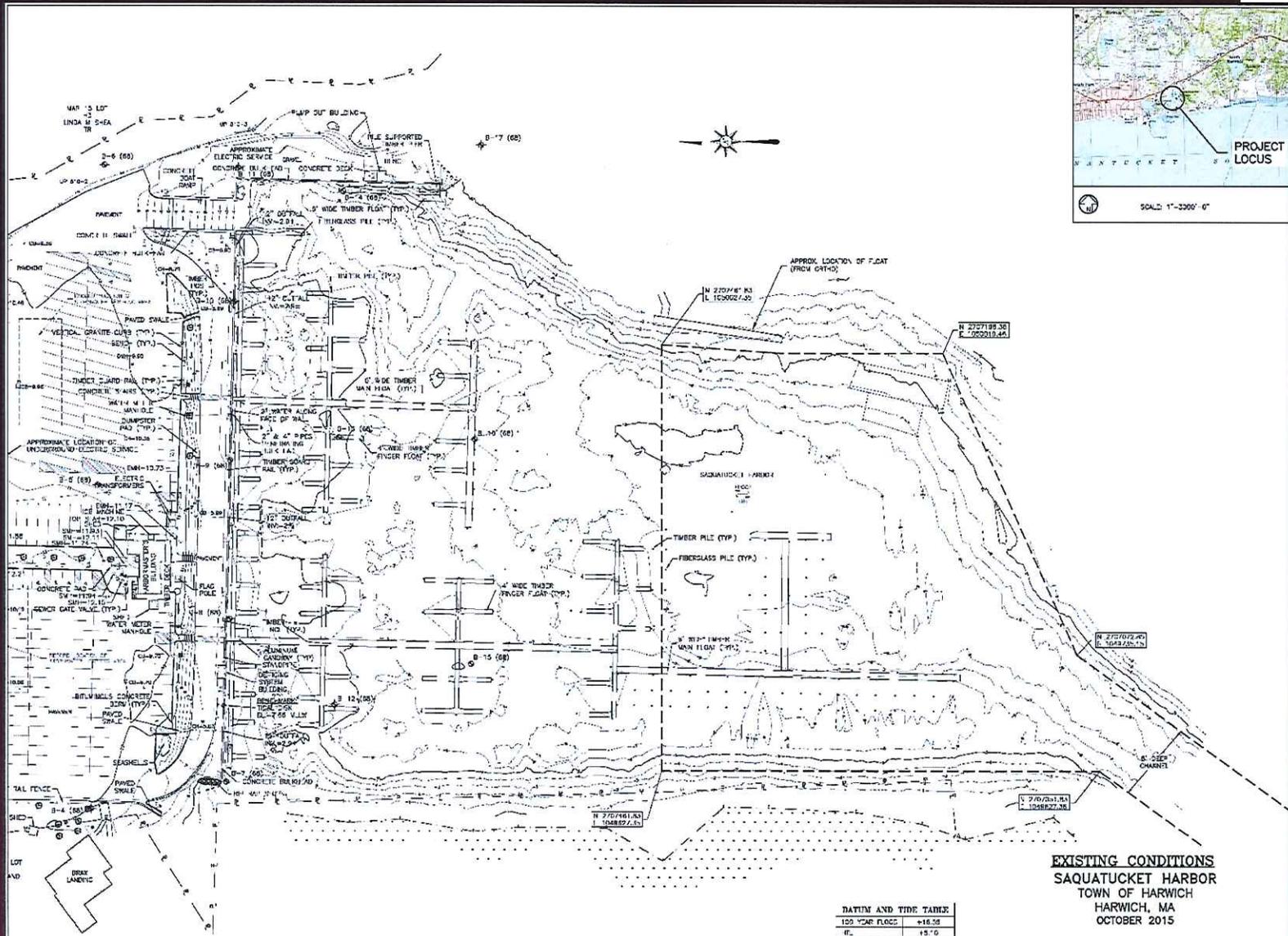
GANGWAY LOADING PLAN
SCALE: 1"=10'-0"

PROPOSED CONDITIONS DETAILS I
SAQUATUCKET HARBOR
TOWN OF HARWICH
HARWICH, MA
OCTOBER 2015

DATUM AND TIDE TABLE	
100 YEAR FLOOD	+14.2M
TTL	+5.10
MSP	-4.0
NAVD83	+2.00
MLW	+3.28
MLLW	0.0



	Bourne Consulting Engineering, PC <small>100 State Street, Harwich, MA 02543</small>	
	DRAWN: JST/ASC CHECKED: RLT APPROVED: JST/ASC DATE: 10/21/15	PROJECT NO. 35087-01-08 SHEET B OF X
REVISIONS		

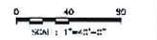


EXISTING CONDITIONS
SAQUATUCKET HARBOR
TOWN OF HARWICH
HARWICH, MA
OCTOBER 2015

- GENERAL NOTES:
1. EXISTING TOPOGRAPHIC AND SOUNDING INFORMATION BASED ON FIELD AND HYDROGRAPHIC SURVEYS BY VNE ASSOCIATES
 2. A BOUNDARY SURVEY CONDUCTED BY SAQUATUCKET HARBOR ON OCTOBER 6 AND 7, 2015
 3. SURVEY DATA AND INFORMATION OBTAINED FROM THE 1912 TIDE GAUGE MEASUREMENTS, SAQUATUCKET HARBOR & PARK, HARWICH, MA, DATED JANUARY 1986, LAST RECORD FEBRUARY 11, 1988.
 4. CHANNEL DIMENSIONS ON BEAMS, CHANNEL PLAN OF PROPOSED BEAMS, DATED 08/17/2008.
 5. SITE BENCHMARK IS VNS 104L BENCH-MARK 7499 A 1993 "SE" IN TOP OF CONCRETE BULK-HEAD.
 6. HORIZONTAL POSITIONS, AS SHOWN, IS BASED ON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD 83).

DATUM AND TIDE TABLE

100 YEAR FLOOD	+16.58
HC	15.70
MHW	14.0
MDSG	12.56
M.L.W.	10.26
M.L.W.	0.3



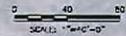
		Bourne Consulting Engineering, PC <small>Professional Seal</small>	
		TEL: (508) 253-2888 FAX: (508) 253-2899	DRAWING NO. 35087-01-01
DESIGNER: CHECKED BY: APPROVED BY: DATE:	JSE/ASC JLF 10/01/15	SHEET <u>1</u> OF <u>X</u>	
REVISIONS			



GENERAL NOTES:

1. EXISTING TOPOGRAPHIC AND SOUNDING INFORMATION BASED ON FIELD AND HYDROGRAPHIC SURVEYS BY YMC ASSOCIATES A DIVISION OF CEA CONSTRUCTIONAL ON OCTOBER 6 AND 7, 2011.
2. PROPERTY LINES ARE APPROXIMATE AND BASED ON PLAN ENTITLED "PROPOSED IMPROVEMENTS, SAQUATUCKET MARINA & PARK, HARWICH, MA" DATED JANUARY 1980, LAST REVISED FEBRUARY 11, 1986.
3. CHANNEL "W" IS BASED ON LEGAL SURVEYING PLAN ID. BROWNE 2006, DATED 11/13/07 Y 17, 2006.
4. SITE BENCHMARK IS NOS TIDAL BENCHMARK "7490 A" 1983 SET IN TOP OF CONCRETE BULKHEAD.
5. HORIZONTAL POSITIONING, AS SHOWN, IS BASED ON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD 83).

DATUM AND TIDE TABLE	
100 YEAR FLOOD	+16.59
HTL	+5.10
MHW	+4.0
NAVD83	+2.59
MLW	+2.35
MLLW	0.0



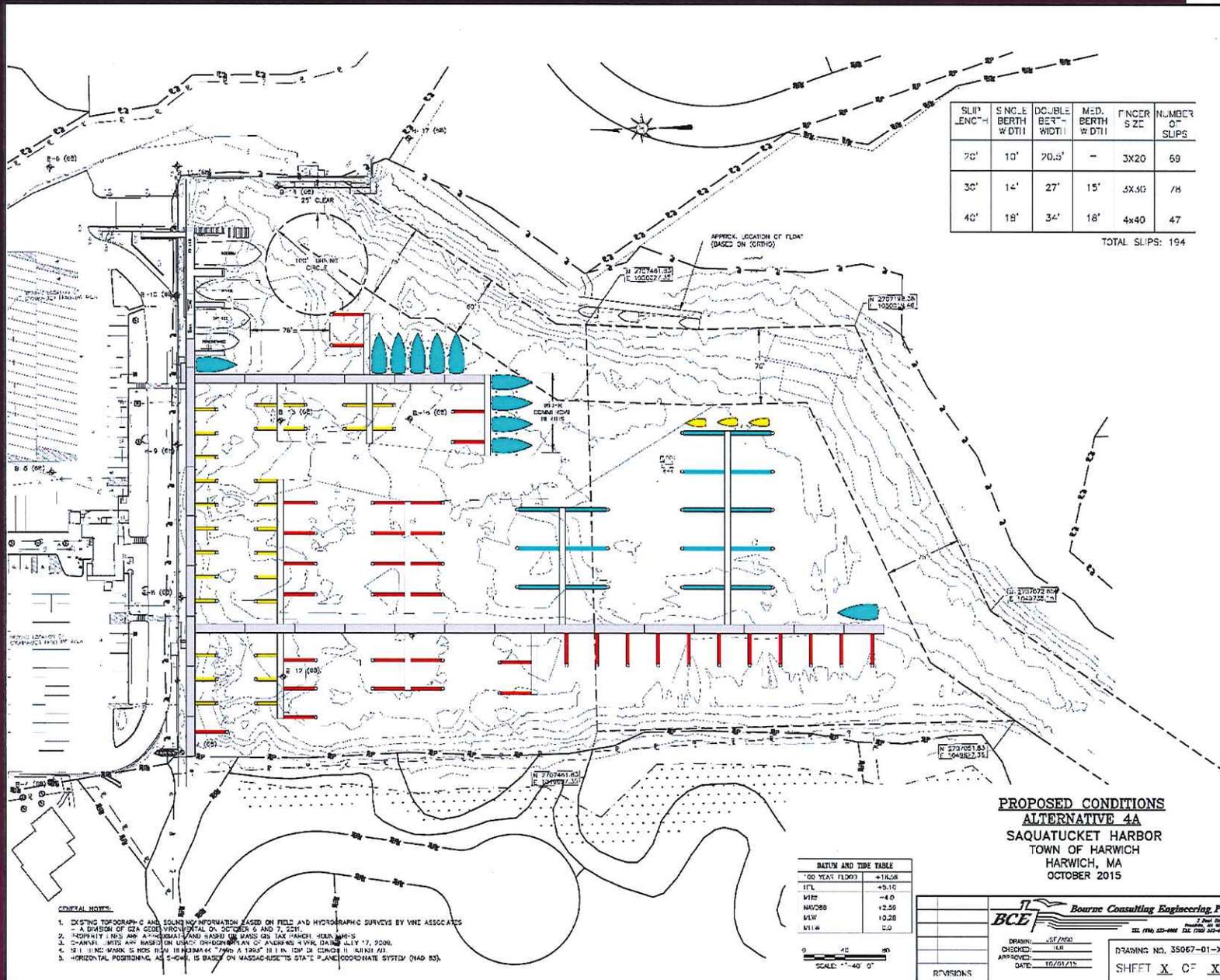
**EXISTING CONDITIONS
SAQUATUCKET HARBOR
TOWN OF HARWICH
HARWICH, MA
OCTOBER 2015**

NO.	DESCRIPTION	DATE



DRAWN: JST/ASG
CHECKED: RJT
APPROVED: [Signature]
DATE: 10/01/15

DRAWING NO. 35057-01-01
SHEET 1 OF X

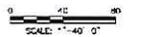


SLIP LENGTH	SINGLE BERTH WIDTH	DOUBLE BERTH WIDTH	MOORING BERTH WIDTH	FINGER SIZE	NUMBER OF SLIPS
70'	10'	20.5'	-	3X20	69
30'	14'	27'	15'	5X50	78
40'	18'	34'	18'	4X40	47

TOTAL SLIPS: 194

**PROPOSED CONDITIONS
ALTERNATIVE 4A
SAQUATUCKET HARBOR
TOWN OF HARWICH
HARWICH, MA
OCTOBER 2015**

MOON PHASE	HEIGHT
0000	+18.28
0100	+9.10
0200	-4.0
0300	12.29
0400	10.28
0500	0.0



- GENERAL NOTES:**
- EXISTING TOPOGRAPHIC AND SOUNDING INFORMATION BASED ON FIELD AND HYDROGRAPHIC SURVEYS BY VME ASSOCIATES - A DIVISION OF SEA COAST SURVEYING, INC. ON OCTOBER 6 AND 7, 2011.
 - PROPORTION 1/8" = 1'-0" (VERTICAL) AND 1" = 100' (HORIZONTAL) UNLESS OTHERWISE NOTED.
 - CHARTERED SURVEYS ARE BASED ON U.S. COAST AND GEODETIC SURVEYING DATA JULY 17, 2008.
 - ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 - HORIZONTAL POSITIONING, AS SHOWN, IS BASED ON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD 83).

Bourne Consulting Engineering PC

2 Paul Street
Harwich, MA 01945
TEL: (508) 553-8888 FAX: (508) 553-8888

DRAWN: JST/MSJ
CHECKED: LMR
APPROVED: [Signature]
DATE: 10/01/15

DRAWING NO. 35067-01-XX
SHEET X OF X

Related Documents - November 30, 2015 BOS Meeting

- 01 Agenda.pdf
- 02 Garden Club Initiatives.pdf
- 03 Minutes Nov 9, 2015.pdf
- 04 Job Description Asst. Library Director.pdf
- 05 Pledge of Liquor License.pdf
- 06 Verizon-Eversource Petition.pdf
- 07 Mooring Servicing Agents.pdf
- 08 Brooks Library Annual Mtg.pdf
- 09 Accela Update.pdf
- 10 Lower County Road Capital Project.pdf
- 11 Saquatucket Harbor Design.pdf
- 12 Judah Eldridge Property.pdf
- 13 Muddy Creek Schedule.pdf